

FIRST AMENDMENT AND RESPONSE TO OFFICE ACTION
U.S.S.N. 10/696,770

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Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

What is claimed:

1. (currently amended) A method of increasing an immune response to a target in an individual comprising, administering to the individual an effective amount of a composition comprising one or more immunity linkers, wherein the ~~linker molecule~~ immunity linkers comprise at least one first binding site and at least one second binding site, wherein the first binding site comprises a first polypeptide expressed by a bacteriophage and wherein the second binding site comprises a second polypeptide expressed by a bacteriophage, wherein the second binding site binds to the target and wherein the individual has a pre-existing immune response to the first binding site, ~~or an immunological equivalent thereof and wherein the immune response is selected from a cellular immune response, and a humoral immune response, and an innate immune response.~~
2. (original) The method of Claim 1, wherein the pre-existing immune response is induced by administering to the individual a universal immunogen comprising the first binding site.
3. (original) The method of Claim 1, wherein the pre-existing immune response is induced by administering to the individual a universal immunogen that is an immunological equivalent of the first binding site.
4. (original) The method of Claim 1, wherein the pre-existing immune response exists in the individual without administration of a universal immunogen.
5. (cancelled)
6. (cancelled)
7. (original) The method of Claim 1, wherein the target is a pathogen.
8. (cancelled)
9. (cancelled)
10. (currently amended) The method of Claim 9~~1~~, wherein the pre-existing immune response is induced by administering to the individual a universal immunogen comprising a second bacteriophage that expresses the first polypeptide.

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11. (original) The method of Claim 10, wherein the first bacteriophage and/or the second bacteriophage are each contained within one or more bacteria.
12. (original) The method of Claim 1, wherein the individual is a human and the first binding site comprises an alpha-galactosyl epitope.
13. (original) The method of Claim 1, wherein the individual is unable to mount an effective immune response to the target prior to administration of the immunity linker.
14. (currently amended) The method of Claim 1, wherein the composition comprises ~~a population of~~ one or more different immunity linkers wherein the first binding sites differ in
 - a) their specificity for different epitopes ~~on~~ of a component of the immune response component, or
 - b) their affinity for the same epitopes ~~on~~ of the immune response component.
15. (original) The method of Claim 14, wherein the immune response component comprises an antibody.
16. (currently amended) The method of Claim 1, wherein the composition comprises ~~a population of~~ one or more different immunity linkers comprising second binding sites that differ in
 - a) their specificity for different epitopes on the target, or
 - b) their affinity for the same epitope on the target.
17. (cancelled)
18. (currently amended) A method of diverting a pre-existing immune response in an individual from a first antigen to a second target comprising, administering to the individual an effective amount of a composition comprising one or more immunity linkers, wherein the linkers comprise at least one first binding site and at least one second binding site, wherein the second binding site binds to the target and wherein the antigen comprises the first binding site, ~~or an immunological equivalent thereof,~~ wherein the first binding site comprises a first polypeptide expressed by a bacteriophage and wherein the second binding site comprises a second polypeptide expressed by a bacteriophage.